

20:

21:

19:

Water supply control portion 30:

Heating chamber interior heating control 32:

Storage part heating control portion

31:

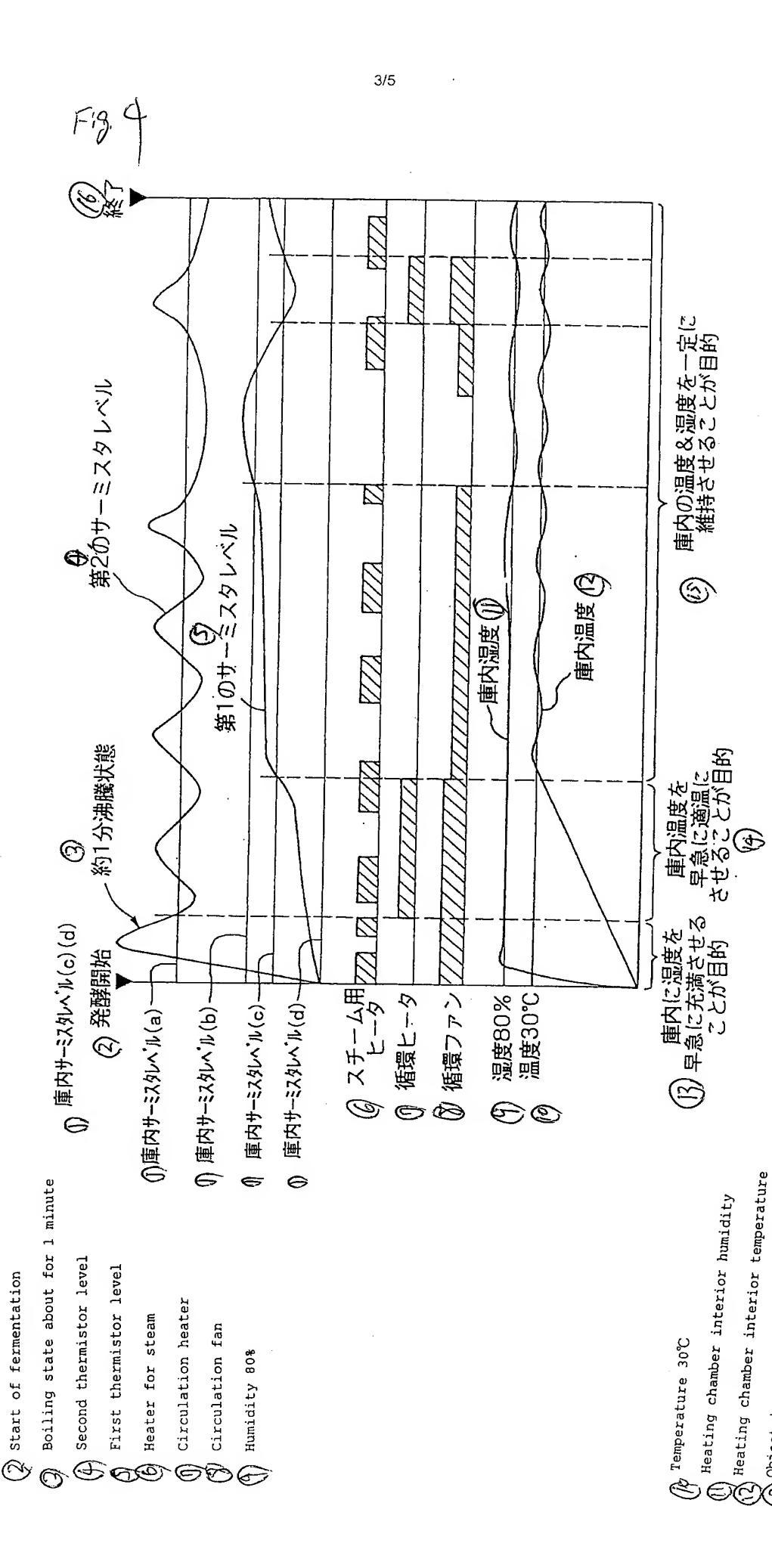
Water pump 16:

Storage part heating part 18:

13:

Convection heater 25:

Fan 26:



Heating chamber interior thermistor level

4)

[Fig.

(તું) Object is to fill steam into heating chamber to quickly set

heating chamber interior at proper humidity. Object is

interior chamber quickly increase heating to

temperature up to proper temperature.

Object is to maintain heating chamber interior at constant 9

temperature and humidity.

End

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	庫内湿度状態 ①	庫内温度状態 💍	評価
マイクロ波発酵()	X 湿度不足	△ 庫内温度維持が大変	本 庫内の適湿・適温を一定に 維持することが困難
ヒータ発酵(タ	X 湿度不足	0	調理器を用いる場合は
スチーム発酵()	0	△庫内温度維持が大変	△ 庫内の適温を一定に 維持することが困難
ヒータ発酵 + スチーム	○ 機器による 湿度コントロール が可能	△~○ 複数の加熱源+沸騰エネルギにより、 庫内温度の均一維持が大変	
ヒータ発酵 + 挽拌 + スチーム	〇 機器による庫内湿度の 最適コントロールが可能	〇 機器による庫内温度の 最適コントロールが可能	○ 任意設定により、調理器側で 湿度・温度・時間の制御が可能
ヒータ発酵 + 機拌 + スチーム (沸騰させない制御)	機器による庫内湿度の 最適コントロールが可能	◎沸騰させない制御により さらに庫内温度の 最適コントロールが可能	○ 任意設定により、調理器側で 湿度・温度・時間の 最適かつ均一制御が可能

[Fig. 5]

- Microwave fermentation
- ${\mathfrak Q}$ Heater fermentation
- Steam fermentation
- A Heater fermentation + steam
- (\mathfrak{I}) Heater fermentation + stirring operation + steam
- Heater fermentation + stirring operation + steam (no boiling control)
- State of humidity within heating chamber
 - X: Short humidity
 X: Short humidity
 Humidity control by equipment is possible.
 Optimum control of humidity within heating chamber by equipment is possible.
- State of temperature within heating chamber
 - Δ : To maintain temperature within heating chamber is difficult.
 - Δ O: Two or more heating sources + boiling energy makes it difficult to maintain uniform temperature within heating chamber.
 - O: Optimum control of temperature within heating chamber by equipment is possible.
 - Because of no boiling control, further optimum control of temperature within heating chamber by equipment is possible.

9 Evaluation

- Δ : To maintain proper humidity and proper temperature within heating chamber constant is difficult.
- Δ : When using a cooking apparatus, use of this method is normal.
- O: Because of arbitrary setting, control of humidity, temperature and time on cooking apparatus side is possible.
- Because of arbitrary setting, optimum and uniform control of humidity, temperature and time on cooking apparatus side is possible.

